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1 [STORM: lightning-fast resource management](#)

Eitan Frachtenberg, Fabrizio Petrini, Juan Fernandez, Scott Pakin, Salvador Coll

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society Press

Full text available: pdf(324.44 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although workstation clusters are a common platform for high-performance computing (HPC), they remain more difficult to manage than sequential systems or even symmetric multiprocessors. Furthermore, as cluster sizes increase, the quality of the resource-management subsystem---essentially, all of the code that runs on a cluster other than the applications---increasingly impacts application efficiency. In this paper, we present STORM, a resource-management framework designed for scalability and pe ...

2 [Adventures in building the Stony Brook video server](#)

Michael Vernick, Chitra Venkatramani, Tzi-cker Chiueh

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(1.17 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: experimental systems, multimedia storage servers, video servers

3 [Mobile Ad Hoc Networks: TCP behavior across multihop wireless networks and the wired internet](#)

Kaixin Xu, Sang Bae, Sungwook Lee, Mario Gerla

 September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia**

Publisher: ACM Press

Full text available: pdf(272.96 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Emerging wireless ad hoc networks find their most important applications in untethered, mobile, multihop scenarios where there is no wired infrastructure. Yet, when the wired infrastructure (say, the Internet) is within reach, opportunistic connections to Internet sites may be established across the multihop network to transfer files and update databases. These file transfers use TCP for reliability and congestion control. However, recent experiments with ad hoc, multihop 802.11 networks have ex ...

Keywords: MANET, TCP performance, ad hoc network, fairness

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1 [STORM: lightning-fast resource management](#)

Eitan Frachtenberg, Fabrizio Petrini, Juan Fernandez, Scott Pakin, Salvador Coll

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

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2 [Notable computer networks](#)

John S. Quarterman, Josiah C. Hoskins

October 1986 **Communications of the ACM**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: pdf(4.66 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

3 [Technical papers: Link layer-based TCP optimisation for disconnecting networks](#)

James Scott, Glenford Mapp

October 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(368.01 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper discusses a link layer approach to improving TCP performance in the face of periodic network disconnections. Network disconnections are encountered in many scenarios, including being out-of-range in a wireless network, during network handoff, and also in the case of Networked Surfaces, a novel LAN technology which provides the motivation for this work. A "smart link layer" employing repetition of selected packets at reconnection time is shown to improve TCP's utilisation of a disconnect ...

Keywords: TCP, disconnection, link layer, mobile networking

4 [Consensual trends for optimizing the constitution of middleware](#)

Stéphane Spahni, Jean-Raoul Scherrer, Dominique Sauquet, Pier-Angelo Sottile

October 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 5**Publisher:** ACM PressFull text available: [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Middleware is now a commonly used expression and anyone building distributed applications is referring to "middleware services". Nevertheless this notion lacks of sound theoretical foundation. This paper tries to clarify the relationship between the components of the distributed environment, and establishes some classification aiming at gaining a common understanding of the functionality and interdependency of the existing modules of distributed environments.

Keywords: OSI, hospital information system, middleware

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John Colter, Netscape Navigator

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20010037406").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 11:33
L3	36	((("20010004354") or ("4589063") or ("5524250") or ("5592622") or ("5619650") or ("5727142") or ("5778013") or ("5802258") or ("5898713") or ("5970804") or ("6021507") or ("6038562") or ("6047323") or ("6067569") or ("6070200") or ("6145017") or ("6157955") or ("6172980"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 11:15
L5	2	("20040073703").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 11:33
S2	2	("6807581").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:15
S3	9	"5807581".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:09
S4	38	((("20010004354") or ("4589063") or ("5524250") or ("5592622") or ("5619650") or ("5727142") or ("5778013") or ("5802258") or ("5898713") or ("5970804") or ("6021507") or ("6038562") or ("6047323") or ("6067569") or ("6070200") or ("6101555") or ("6145017") or ("6157955") or ("6172980"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:10
S5	3	"6807581".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:14

EAST Search History

S6	1521	(709/250).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:15
S7	3031	(709/227).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:15
S8	1840	(709/230).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:17
S9	12	("user datagram protocol socket")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:20
S10	0	("user datagram protocol socket") and (file adj system\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:20
S12	326	((udp (user adj datagram adj protocol)) adj socket\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:21
S13	77	((udp (user adj datagram adj protocol)) adj socket\$3) and (file adj system\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:21
S14	8	S13 and @ad<"19980827"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:28

EAST Search History

S15	1163677	(interface\$5) (network adj interface adj card)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:28
S16	8	S14 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/15 19:30
S17	24	interface near file near cache	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 11:06